

REMARKS

I. Status Summary

Claims 1-9 are pending in the present application and claims 1-9 stand rejected.

Claim 1 has been amended. Reconsideration of the application based on the arguments set forth hereinbelow is respectfully requested.

II. Claim Objections

Claim 1 is objected to by the Examiner. Specifically, the Examiner states that at claim 1, line 3, the acronym "PCM" after "codec circuit to a transmitted" needs to be replaced with -- Pulse Code Modulation (PCM) --. Further, the Examiner states that at claim 1, line 5, the word "the" after "device configured to identify" needs to be replaced with -- a --. These changes to claim 1 have been made as indicated above.

III. Claim Rejections Under 35 U.S.C. § 103

Claims 1-9 stand rejected under 35 U.S.C. § 103(a) as being unpatentable over U.S. Patent No. 6,744,812 to Anne et al. (hereinafter, "Anne"). These rejections are respectfully traversed.

Claim 1 recites a codec circuit having a programmable digital bandpass filter for matching the filter characteristics of the codec circuit to a transmitted PCM signal. Further, claim 1 recites at least one programmable digital high-pass filter and at least one programmable digital low-pass filter connected in series. Claim 1 also recites that the codec circuit has a signal identification device configured to identify a type of

modulation and transmission speed of a transmitted PCM signal. The signal identification device is also configured to set filter coefficients for the at least one programmable digital high pass filter and the at least one programmable digital low pass filter based on the identified type of modulation and transmission speed of the transmitted PCM signal. It is respectfully submitted that these features are not taught or suggested by Anne. In particular, Anne does not disclose that the codec circuit has a signal identification device configured to identify the type of modulation and transmission speed of a transmitted PCM signal and set filter coefficients for the programmable digital high pass and low pass filters based on the identified type of modulation and transmission speed of the transmitted PCM signal.

The Examiner does not identify which element of Anne corresponds to the signal identification device recited in claim 1. Anne discloses a modulation selection routine **432**, which determines the appropriate modulation technique, but this determination is made "through communication with a host processor **106** in computer system **100**". (Column 16, lines 3-5) In other words, the modulation selection routine **432** does not itself identify the type of modulation that is applied to a signal. Rather, it needs to be provided with this information by another (external) device. As a result, according to the teaching of Anne, it is necessary to provide a communication path having a fixed communication protocol, i.e. modulation technique and transmission speed.

In contrast, the codec circuit according to claim 1 can overcome such limitations by identifying the type of modulation and transmission speed of the signal itself. Accordingly, it is respectfully submitted that Anne does not teach or suggest all of the

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elements recited by claim 1. As a result, applicant respectfully requests that the rejection of claim 1 under 35 U.S.C. §103(a) be withdrawn and the claim allowed at this time.

Claims 2-9 depend upon claim 1. Therefore, the comments presented above relating to claim 1 apply equally to claims 2-9. Accordingly, for the reasons provided above for claim 1, applicant respectfully requests that the rejection of claims 2-9 under 35 U.S.C. § 103(a) be withdrawn and the claims allowed at this time.

#### CONCLUSION

In light of the above Remarks, it is respectfully submitted that the present application is now in proper condition for allowance, and an early notice to such effect is earnestly solicited.

If any small matter should remain outstanding after the Patent Examiner has had an opportunity to review the above Remarks, the Patent Examiner is respectfully requested to telephone the undersigned patent attorney in order to resolve these matters and avoid the issuance of another Official Action.

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DEPOSIT ACCOUNT

The Commissioner is hereby authorized to charge any additional fees associated with the filing of this correspondence to Deposit Account No. 50-0426.

Respectfully submitted,

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REJ/BJA

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